

PAVLOV, A.V.; SERGEYEVA, T.P.

Nematodes in rails of the U.S.S.R. Trudy Gel'n. lab. 11:180-193
'61. (MIRA 15:12)

(Parasites—Rails (Birds)) (Nematoda)

RYZHIKOV, K.M.; PAVLOV, A.V.; AKHMEROV, A.Kh.; KONTRIMAVICHUS, V.L.

Work of the Amur Helminthological Expedition (314th All-Union
Helminthological Expedition) in 1958. Trudy Gel'm.lab. 11:373-
392 '61. (MIRA 15:12)
(Amur Valley--Worms, Intestinal and parsitic)

PAVLOV, A.V.

Trematodes of rails in the U.S.S.R. Trudy Gel'm. lab. 12:61-89
'62. (MIRA 15:7)

(Trematoda) (Parasites--Rails (Birds))

PAVLOV, A.V.; YUN'-LYAN' [Yün Lien]

Discovery of the nematode *Hepaticola soricicola* in shrews of the
Altai. Trudy Gel'm. lab. 12:90-93 '62. (MIRA 15:7)
(Gorno-Altai Autonomous Province--Nematoda)
(Gorno-Altai Autonomous Province--Parasites--Shrews)

PAVLOV, N. V.

Percentage of the outside of nematodes, a preliminary survey.

Trudy Geol'm. Lab. 14/13-14- '64.

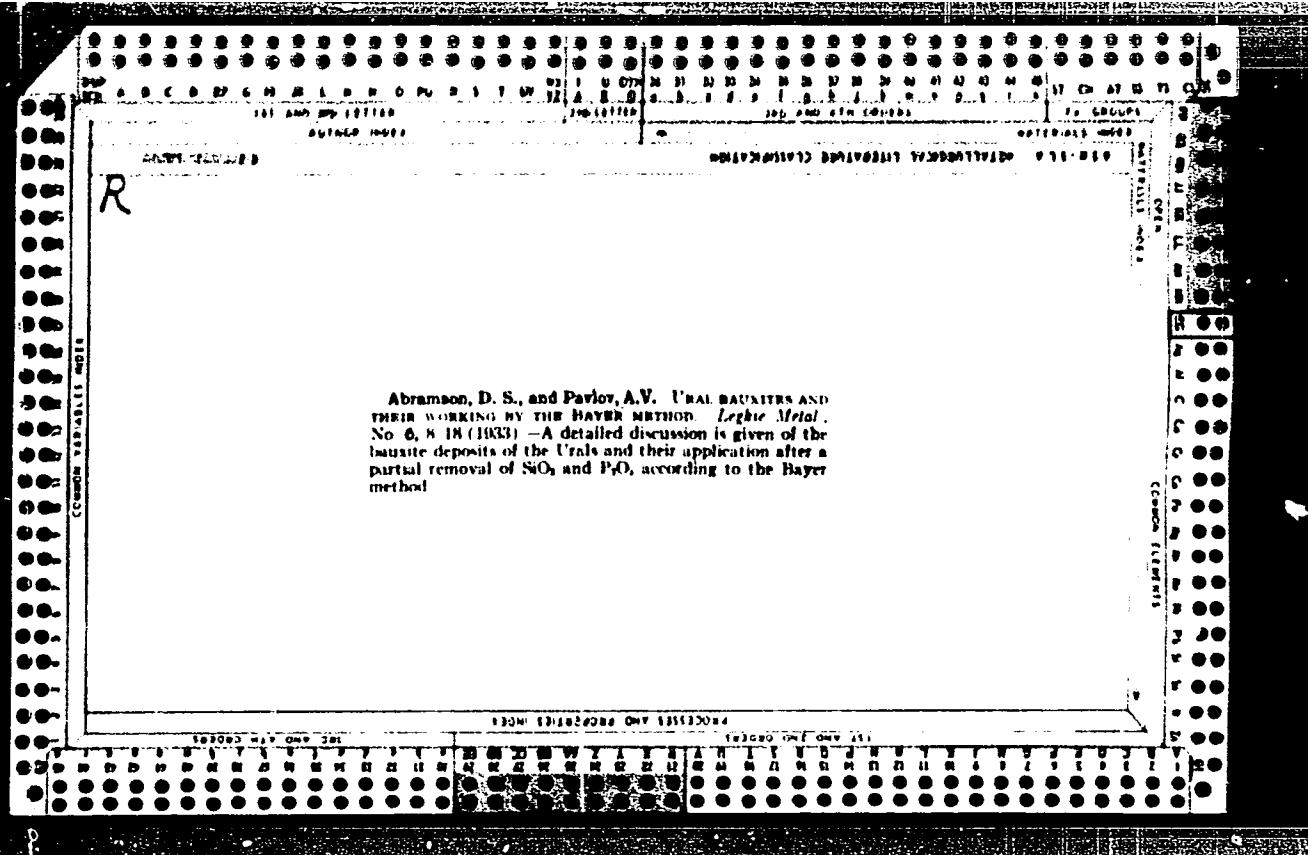
(MIRA 17-18)

TAZHIBAYEVA, P.T.; PAVLOV, A.V.

Reviews. Lit. 1 pol. iskop. no.3:141-146 My-Je '65.

(MIRA 18:10)

1. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Tazhibayev).
2. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad
(for Pavlov).



Ca

The Tikhvin alumina plant. A. V. Pavlov and V. A.

Bernahteln. *Legbie Metal.* 3, No. 6, 21-34(1034) - A description of the bauxite purification plant now under construction. The plant will use the flow sheet of "Ni-
maluminum" (cf. preceding abstr.) and will have a capacity of 50,000 tons of purified Al_2O_3 annually

H. W. Rathmann

AS - 14 - METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTER																										3RD AND 4TH LETTER																										5TH AND 6TH LETTER																										7TH AND 8TH LETTER																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																									
2 Baimakov, Yu. V., and Pavlov, A. V. <i>BAKITE</i> V. <i>metallurgicheskie i khimicheskie SSSR</i> <i>izvestiya</i>, Nauka SSSR <i>Geol. Geofiz. Otdel.</i> 2, 100-27 (1945). The technological processes in working bauxite are described																																																																																																							

PAVLOV, A.V.; FOKINA, Ye.I.

Distribution of germanium in the cross section of a simple coal
seam. Inform. sbor. NIIGA no.30:42-51 '62. (MIRA 1962)

137-1958-3-4831

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 55 (USSR)

AUTHOR: Pavlov, A. V.

TITLE: Summaries of the Symposium on the Problem of "The Creation of a Metallurgy of East Siberian Light Metals Based on Indigenous Ores" (Itogi soveshchaniya po probleme "Sozdaniye metallurgii legkikh metallov Vostochnoy Sibiri na baze mestnykh rud")

PERIODICAL: Sb. materialov tekhn. inform. Gos. in-t po proyektir. alyumin. magniyevykh i elektrodn. z-dov, 1957, Nr 1, pp 46-47

ABSTRACT: The following trends and contents of basic operations in the near future were identified at the Symposium, which was held in the city of Irkutsk from October 15 to 19, 1956: 1) Prospecting and geological research operations for Al-, Ti-, and Mg-ores and fluorspar should be developed by all available means; 2) More attention should be paid to the development of technologies for the production of Al, Ti, and Mg, as well as to a profound study of physicochemical principles of these systems; novel highly-efficient and automatized apparatus and equipment should be used.

Card 1/1

G. S.

SOV/137 58-11 22174

Translation from: Referativnyy zhurnal Metallurgiya, 1958 Nr 11, p 49 (USSR)

AUTHORS: Lyapunov, A. N., Pavlov, A. V.

TITLE: The Aluminum Plants of Yugoslavia (Alyuminiyevyye zavody Yugoslavii)

PERIODICAL: V sb.: Legkiye metally Nr 3. Leningrad, 1957, pp 61-78

ABSTRACT: Al output in Yugoslavia is concentrated at 2 plants, one at Lozovtse (annual output 3500-4000 t Al_2O_3 , 1500 t Al) and the other at Kidrichevo (50,000 t Al_2O_3 , 15,000 t Al). In addition, the chemical plant at Ljubljana has an Al_2O_3 department (7500-8000 t Al_2O_3 per year). A description is offered of the aluminum plant at Kidrichevo, which is of interest because of the unique Al_2O_3 production technology and the novelty of certain solutions of industrial engineering problems. The plant was launched in 1954. After completion of construction of the 2nd unit, its Al_2O_3 and Al power will be doubled. The plant processes Drnish bauxite (mined about 450 km away). The Bayer process provides the basis of the flowsheet, with the following modifications: 1) Treatment of ground bauxite 1-15 mm in piece size; 2) countercurrent leaching of bauxite in batteries of autoclave-type

Card 1/2

SOV/137-58-11 22174

The Aluminum Plants of Yugoslavia

leaching tanks, with periodic charging and discharging and simultaneous slimes washing; 3) removal of silicon from the evaporated solution employed in bauxite leaching; 4) employment of a relatively weak return solution (180 g/liter Na_2O). The consumption indices per t alumina are: 1) 2.55-2.6 t bauxite (Al_2O_3 51.5%, SiO_2 3.5%, H_2O 0.8%); 2) 0.18-0.19 t soda (100% Na_2CO_3); 3) 4.5 kg cellulose; 4) 1900-1950 nm^3 generator gas ($Q_p^{\text{low}} = 1450 \text{ kcal/nm}^3$) including 940-960 nm^3 for calcining the Al_2O_3 ; 5) 470-520 kwh electrical energy; 6) 5-9 t steam for the Fulda process. 21.3 man hours are required to produce 1 t Al_2O_3 . The chemical composition of the resultant Al_2O_3 is as follows in %: Na_2O 0.24-0.57, Fe_2O_3 0.039-0.06, SiO_2 0.014-0.03, others 0.15-0.25. The average technical and process indices of the operation of the electrolysis department are: 84-85% current efficiency, 0.89 amps/ cm^2 anode cd, 4.5-4.6 v average working potential on cell, 17,000 kwh/t consumption of electrical energy. 90% of the Al produced is of the following composition: up to 0.12 SiO_2 , 0.3 Fe, and 99.58 Al; while 10% of the Al is of the following composition: up to 0.08 SiO_2 , up to 0.15 Fe, and 99.77 Al.

N P

Card 2/2

SOV/137-58-10-20699

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 52 (USSR)

AUTHORS: Dumskaya, A.F., Pavlov, A.V.

TITLE: Complex Treatment of Nepheline Rocks of New Occurrences
(Kompleksnaya pererabotka nefelinovykh porod novykh mesto-
rozhdений)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 43-51

ABSTRACT: An examination is made of 2 methods of dressing nepheline syenites of different compositions, viz., magnetic concentration in a weak magnetic field and chemical concentration consisting of treatment of ground nepheline rock with a caustic alkaline solution. The conditions for treatment of the resultant concentrates to derive alumina by sintering are specified with greater precision. With the object of utilizing nepheline rocks without prior concentration, a flowsheet is proposed that eliminates sintering and is based upon hydrochemical treatment of the rock with a strong caustic alkaline solution of up to 500 g ROH/liter. Examination is made of the treatment of the unconcentrated rock by sintering, with addition of solid reductant (anthracite, coke) to the mix. 1. Nephelite ore--Processing U.S.

Card 1/1

BIRKOVSKIY, Yu.Ye., red.; GRIGORASHCHENKO, A.Ye., red.; GRISHCHENKO, I.I., red.; GUTMAN, L.B., red.; LEBEDEVSKIY, L.A., red.; MEL'NIK, M.N., red.; PAVLOV, A.V., red.; PAI, A.G., red.; CHIRKOVA, L.A., red.

[Toxoplasmosis; transactions of the scientific conferences in Kiev, December 21 - 23, 1962, and in Odessa, April 25 - 27, 1963] Toksoplazmoz; trudy nauchnykh konferentsii, sostoiavshikhsia v g. Kieve 21-23 dekabria 1962 g. i v g. Odessa 25-27 aprilia 1963 g. Pod red. M.N.Mel'nika i A.G.Pap. Kiev, 1963. 180 s.

1. Ukrainskiy nauchno-issledovatel'skiy institut okhvat materinstva i detstva im. I.M.Mayk.

VIKHERT, P.N.; DOBROGAYEV, R.P.; LYAKHOV, M.I.; TAVILOV, A.V.;
SOLOV'YEV, M.P.; STEPANOV, Yu.A. [deceased]; SUVOROV, V.G.;
STEPANOV, G.Yu., prof., red.

[Design and construction of motor-vehicle and tractor
engines] Konstruktsiia i raschet avtotraktornykh dvigatelei.
Izd. 2., perer. i dop. Moskva, Mashinostroenie, 1964. 55 p.
(MIRA 18...)

PAVLOV, A.V.; AIDUNIN, V.G.; FRANKEL', S.Ya.

Molecular weight distribution of mixed polyamides. *Vysokomol. soed.* 6
no.9:1600-1604 S '64. (MIRA 17:10)

1. Institut elementoorganicheskikh soedineniy AN SSSR i Institut
vysokomolekulyarnykh soedineniy AN SSSR.

PAVLOV, A.V.; VASILEVSKIY, N.I.; KLEINOVSKIY, Y.G.; ... V.P.;
ARSEN'YEV, G. .

Geochemistry of the weathering sediments in southern Iceland, concerning
A.A. Kodikova's article. III. 1 pol. Iskop. no.4:45-48 1974.

1. Naukova Dumka, Kiev. Institut geologii i geofiziki, Leningrad.

L 16840-66 ARG/EWT(d)/FBD/FBO/EWT(m)/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(l)/EWA(h)/

ACC NR: AM6000300

Monograph

UR

ETC(m)-6 TT/WW/EM.

Kotik, Mikhail Grigor'yevich; Paylov, Aleksey Vasil'yevich; Pashkovskiy, Igor' Mikhaylovich; Sardanovskiy, Yuriy Sergeevich; Shchitavev, Nikolay Grigor'yevich

Flight testing of aircraft (Letnyye ispytaniya samoletov) Moscow, Izd-vo "Mashinostroyeniye," 1965. 379 p. illus., biblio. Errata slip inserted. 3000 copies printed.

TOPIC TAGS: aircraft flight test, aircraft

PURPOSE AND COVERAGE: This monograph is a textbook for students of aviation schools specializing in aircraft flight testing.^{4,5} It can also be used as a handbook by professional people employed by the aircraft industry at flight testing facilities. It presents up-to-date techniques used in aircraft testing, including a study of the principles underlying the methods of determining the main characteristics of a modern airplane.

TABLE OF CONTENTS:

Foreword — 3

Glossary of Symbols — 4

Introduction — 6

Card 1/3

UDC: 629.135.2.001.4(075.3)

L. 16840-66

ACC NR. AM6000300

Ch. I. The atmosphere -- 11

Ch. II. Classification and measurement errors during flight tests -- 30

Ch. III. Determining the speed, pressure, air temperature and the coordinates of an aircraft in space -- 47

Ch. IV. Ground preparations for flight tests. The first flight of an experimental aircraft -- 73

Ch. V. Determining the flight characteristics of an aircraft -- 92

Ch. VI. Aircraft stability and control characteristics -- 131

Ch. VII. Methods for the quantitative evaluation of aircraft stability and control -- 193

Ch. VIII. Tests at maximum flying speeds and mach numbers -- 248

Ch. IX. Aircraft stalling and spinning tests -- 267

Ch. X. Determination of aircraft maneuverability. Maximum overload tests. Dynamic ceiling -- 291

Card 2/3

L 16840-66

ACC NR: AM5000300

Ch. XI. Determination of the launching and landing characteristics of an aircraft — 338

References — 377

SUB CODE: 01/ SUBM DATE: 06Aug65/ ORIG REF: 023/

Card 3/3mc

KOTIK, Mikhail Grigor'iyevich, kand. tekhn. nauk; PAVLOV, Aleksey
Vasil'yevich, inzh.; PASHKOVSKIY, Igor' Mikhaylovich,
kand. tekhn. nauk; SARDANOVSKIY, Yuriy Sergeyevich, inzh.;
SHCHITAYEV, Nikolay Grigor'iyevich, inzh.; GALLAY, M.L.,
kand. tekhn. nauk, zasl. letchik-ispytatel' SSSR, retsenzent;
KIRILLOV, Ye.A., inzh., retsenzent

[Flight testing of airplanes] Letnye ispytaniya samoletov.
Moskva, Mashinostroyeniye, 1966. 379 p. (MIRA 18:11)

PAVLOV, A.V.

Lening Prize awarded to Lev Aleksandrovich Zankevich, 1889, corresponding member of the Academy of Sciences of the U.S.S.R. Izv. AN SSSR. Ser. biol. no.4:592-593 J1-Ag '65. (MIRA 18:7)

ZHIL'TSOV, V.R.; ZELENOV, A.F.; KOKIN, A.G.; KOLOSOV, V.A.;
KROBITSYN, M.D.; MALYAVINSKIY, A.M.; NEFEDOV, Ya.D.;
PAVLOV, A.V.; STEPANOV, Yu.A., prof.; SUVOROV, V.G.;
YUSHIN, S.I.; POCHTAREV, N.F., kand. tekhn. nauk, inzh.-
polkovnik, red.; KUZ'MIN, I.F., tekhn. red.

[Internal combustion engines; design and performance] Dviga-
teli vnutrennego sgoraniia; ustroistvo i rabota. [By] V.R.
Zhil'tsov i dr. Pod red IU.A.Stepanova. Moskva, Voen. izd-vo
M-va obor. SSSR, 1955. 470 p. (MIRA 16:6)
(Internal combustion engines)

PAVLOV, A.V.

Use of bearing pressure to prevent outbursts of coal and gas in
stopes with separate, steeply pitching seams in the Donets Basin.
Zap. LGI 38 no.1:157-175 1959 (MIRA 14:3)
(Donets Basin—Coal mines and mining—Safety measures)

PAVLOV, A. V.

Cand Tech Sci - (diss) "Protective network of bore-holes as a means of utilizing bearing pressure for combating ejections in clearing cuts of solitary strata of the Donbass." Moscow, 1961. 18 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst imeni I. V. Stalin); 200 copies; price not given; (KL, 6-61 sup, 223)

PAVLOV, A V

VIKHART, Mikhail Mikhaylovich; DOBROGAYEV, Rostislav Pavlovich; LYAKHOV, Mikhail Ivanovich; PAVLOV, Aleksey Vasil'yevich; SOLOV'YEV, Mikhail Petrovich, professor; STEPANOV, Yuriy Aleksandrovich; SUVOROV, Viktor Grigor'yevich; KHANIN, N.S., kandidat tekhnicheskikh nauk, retsenzent; GHISTOZVONOV, S.B., retsenzent; NECHAYEV, B.K., doktor tekhnicheskikh nauk, retsenzent; SHUBOVICH, S.I., kandidat tekhnicheskikh nauk, retsenzent; YEGORKINA, L.I., inzhener, redaktor; SOKOLOVA, T.P., tekhnicheskij redaktor

[Construction and design of truck and tractor engines] Konstruktsiya i raschet avtotraktornykh dvigatelei. Pod red. I.U.A.Stepanova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 604 p. (MIRA 10:10)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotorny institut (for Khanin, Chistorvonov). 2. Kafedra dvigateley vnytrennego sgoraniya Tomskogo politekhnicheskogo instituta (for Nechayev, Shubovich)

(Motortrucks--Engines) (Tractors--Engines)

L 3865-66 B7(1) GW

AM5023900

BOOK EXPLOITATION

UR/
55.345:536.24

Pavlov, Aleksandr Vladimirovich

Heat exchange between freezing and melting soils and the atmosphere (Teploobmen promerzayushchikh i protaiyayushchikh gruntov s atmosferoy) Moscow, Izd-vo "Nauka", 1965. 253 p. illus., biblio. (At head of title: Akademiya nau, SSSR. Gosstroy SSSR. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh sooruzheniy) 1400 copies printed.

TOPIC TAGS: ^{12,44,55} heat balance, earth heat balance, permafrost, frozen ground, soil science, soil physics, cryopedology

PURPOSE AND COVERAGE: The heat balance of the earth's surface is discussed in relation to physical geography, hydrometeorology, soil science and construction engineering. In 1956-1957, the Institute of Permafrost Study imeni V. A. Obruchev, Academy of Sciences USSR, started a systematic study of the heat exchange between the atmosphere on the one hand, and seasonally freezing and permanently frozen grounds on the other. The study was renewed in the period

Card 1/3

L 3865-66

AM5023900

1960-1964. Experimental research was conducted by this Institute at the Zagorskaya Station, situated in the zone of seasonally freezing ground, and in the region of Vorkuta, which is in the zone of permanently frozen ground. Research was conducted on all components of the heat balance in connection with the elements of the heat-moisture regime of the underlying air layer, snow cover, and ground properties. The author of this monograph gives a general summary of the results of the above research. The book is primarily intended for soil scientists, but it will be also of interest to students of geology, geophysics, and civil engineering. There are 309 references, of which 277 are Soviet.

TABLE OF CONTENTS [abridged]:

Foreword -- 3

Introduction -- 5

1. Components of the heat balance and elements of the water-heat regime of soils. Methods of determining them -- 11

Card 2/3

L 3865-66

AM5023900

2. Heat balance of natural surfaces and engineering platforms in typical regions of the European USSR -- 81
3. Heat and mass transfer in the snow cover, as the transition layer in heat exchange between ground and atmosphere -- 120
4. Heat and moisture regime of soils during periods of seasonal freezing and melting -- 162

Conclusion -- 237

Bibliography -- 239

SUB CODE: ES

SUBMITTED: 30Mar65

NO REF SOV: 277

OTHER: 032

Cord 3/3

GUSEV, Anatoliy Yakovlevich; PAVLOV, Aleksandr Vasil'yevich; BYALOBZHESKIY,
G.V., redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor

[Winter maintenance of automobile roads] Zimnee soderzhanie
avtomobil'noy dorogi. Moskva, Nauchno-tekhn. izd-vo avtotransp.
lit-ry, 1957. 22 p. (MLRA 10:7)
(Roads--Maintenance and repair)

PAVLOV, A.V.; USTENKO, G.P.

Heat balance and radiation regime in corn fields. Izv. AN
SSSR. Ser. geog. no.6:47-55 N-D '65. (MIRA 18:11)

KVITNITSKIY, Aleksandr Vasil'yevich; PAVLOV, Anatoliy Vladimirovich;
LEUTA, V.I., inzhener, redaktor; DUBINSKIY, L.M., inzhener,
retsensent; RUDENSKIY, Ya.I., tekhnicheskii redaktor.

[Preparing work drawings] Vypolnenie rabochikh chertezhei.
Kiev, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry,
1955. 138 p. (Biblioteka konstruktora) (MIRA 9:1)
(Mechanical drawing)

PAVLOV, A.V. (Kherson); MAGID, Ye.A. (Kherson)

Fluorine content in the drinking water in Kherson Province.

Probl.stom. 6:143-146 '62.

(MIRA 16:3)

(KHERSON PROVINCE—DRINKING WATER) (FLUORINE)

PAVLOV, A.V. (Nikolayev)

Work of out-patient polyclinics in Nikolaev Province. Sov. zdrav.
21 no.5:54-59 '62. (MIRA 15:5)

1. Iaveduyushchiy Nikolayevskim oblastnym otделom zdravookhraneniya.
(NIKOLAEV PROVINCE--HOSPITALS--OUTPATIENT SERVICES)

PAVLOV, A. V.: Master Agric Sci (diss) -- "Winter irrigation of fields to increase their yield". Moscow, 1959. 15 pp (Acad Sci USSR, Inst of Frost Study im V. A. Obruchev), 150 copies (KL, No 14, 1959, 122)

PAVLOV, Aleksandr Vladimirovich; DOSTOVALOV, B.N., doktor geologo-mineral.
nauk, otv.red.; YEFIMOV, A.L., red.izd-va; GOLJB', S.P., tekhn.red.

[Winter irrigation of fields to increase yield] Zimnee oroshenie
polei dlia povysheniia urozhainosti. Moskva, Izd-vo Akad.nauk
SSSR, 1960. 68 p. (MIRA 13:4)
(Irrigation)

PAVLOV, A. V., Cand Geolog-Mineralog Sci (diss) -- "The lithology and genesis of the coal-bearing deposits of the Bupatinskiy deposit of Primoriye Kray". Leningrad, 1960. (Min Higher and Inter Spec Educ RSFSR, Leningrad Order of Lenin and Order of Labor R d Banner Mining Inst im G. V. Plekhanov, Chair of the Geolo of Deposits of Useful Minerals), 200 copies (KL, No 14, 1960, 120)

PAVLOV, A.V.

Method for processing Uzhur nephelines. Trudy Vost.-Sib. fil. AN
SSSR no.13:185-200 '58. (MIRA 12:12)

1.Giproalyuminiy.

(Uzhur region (Kuznetsk Ala-Tau)--Nephelite)

PAVLCOV, A.V.

Resolving power of the eye. Biul. VAGO no.29:39-40 '61.
(MIRA 14:7)

1. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva, otdel planet i luny.
(Optics, Physiological)

PAVLOV, A.V.; GUSEV, A.I.

Accumulation of coals. Inform. sbor. NIIGA no. 32:37-44 '62.
(MIRA 16:12)

PAVLOV, A.V.; YAKOVLEV, A.I.

Effect of the bearing area of the action of rock pressure
on the supports. Zap. LGI 48 no.1.25-27 '63. (MIRA 17:8)

PAVLOV, Andrey Vladimirovich; SHKVARKO, Vladimir Vasil'yevich;
LANINA, L.I., red.

[At the fighting front of chemistry] Na udarnom khimicheskoy fronte. Moskva, Izd-vo "Znanie," 1964. 47 p.
(Novoe v zhizni, nauke, tekhnike. X Seriya: Molodezhnaya, no.12) (MIRA 17:6)

PAVLOV, A.V. (Nikolayev)

Fluorine in the drinking water of Kherson Province and its interrelation
with disease incidence. Vrach.delo no.10:92-93 0 '60. (MIRA 13:11)
(KHERSON PROVINCE--FLUORINE)
(TEETH--DISEASES)

GOLUBEV, A.V.; PAVLOV, A.V.; Prinimali uchastiye: ANAN'YEVA, Yu.G.,
laborant; IBRAGIMOVA, Z.R., laborant; MAL'KOVA, M.N., laborant;
KOTIKOVA, . . . , laborant; SHCHENKO, M.Y., T.S., laborant; SHOKHINA,
M.K., laborant.

Investigating heat currents in soils for some types of the
active surface. Dokl. AN SSSR 139 no.6:66-118 Ag '61.

(MIRA 14:7)

(Moscow Province—Soil temperature)

PAVLOV, Aleksandr Vladimirovich; TSVETKOVA, S.G., kand. tekhn.
nauk, otv. red.; KONDRAT'YEVA, V.I., red.

[Heat transfer between freezing and thawing soils and the
atmosphere] Teploobmen promerzaiushchikh i protaivaiushchikh
gruntov s atmosferoi. Moskva, Nauka, 1965. 253 p.
(MIRA 18:4)

PAVLOV, A.Y.; RAUNER, Yu.L.

Some results of observations of heat balance components in the snow cover. Izv. AN SSSR. Ser. geog. no.5:53-59 S-O '60. (MIRA 13:10)

1. Institut merzlotovediya AN SSSR i Institut geografii AN SSSR.
(Zagorsk region--Snow) (Atmospheric temperature)
(Soil temperature)

PAVLOV, A.V.

Analytic method for determining radiation balance on the basis
of the total radiation and albedo. Izv. AN SSSR. Ser.geog. no.6:
94-100 N-D '62. (MIRA 15:12)

1. Institut merzlotovedeniya AN SSSR.
(Solar radiation) (Earth temperature)

PAVLOV, A.V.; BRESLER, S. Ye.; RAFIKOV, S.R.

Molecular weight distribution of poly- ϵ -caproic amide, a
product of anionic polymerization. Vysokom. soed. 6 no.11:2068-
2072 N '64 (MIRA 18:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut
vysokomolekulyarnykh soyedineniy AN SSSR.

1958-7-10

AUTHORS: Shchekin, G.A., Head of the Laboratory, Pavlov, A.V., Laboratory Engineer; Drukker, Ye.M., Chief of Long-Line Communications Services; Gerkulesov, A.D., Assistant Shift Chief.

TITLE: The Practice of Using Telegraph Communications Without Transmission Regulating Apparatus (Opyt ekspluatatsii i upravleniya grafnykh svyazey bez kontroliruyemykh apparatov periodicheskogo tsentral'nogo telegrafa)

PERIODICAL: Vestnik svyazi, 1958, Nr 7, pp 22-24 (USSR)

ABSTRACT: At the beginning of 1957, the Leningrad Central Telegraph Office decided to transmit telegrams without using a transmission regulating apparatus. For this purpose, the operators were provided with STA apparatus, the receiver and re-perforator were plugged into the reception channel and the transmitter and line breaker into the transmission channel (Figure 2). An STA apparatus was distributed between every 5 telegrams, being switched into any of them for the purpose of carrying out a technical and operational check. The periodic check system between offices, based on a comparison of the perforated feed tape with the receiver telegram, is described.

Card 1/2

111 58 7 25 27

The Practice of Using Telegraph Communications Without a Transmission Regulating Apparatus In the Leningrad Central Telegraph Office

detail. A study was made of the mistakes and defects in telegrams issued within the space of one hour from various offices, with and without transmission regulation. This study revealed that the use of a regulating apparatus was not justified. The operator, faced with working both transmitting and receiving equipment, cannot cope effectively with them both, thus causing errors. There are 2 circuit diagrams and 2 photos.

ASSOCIATION: Leningradskiy tsentralnyy tel-graf (Leningrad Central Telegraph Office)

1. Telegraph systems--Operation 2. Monitors--Applications

Card 2/2

SOV/111-60-11-11/76

AUTHORS: Shchekin, G.A., Senior Engineer of the Laboratory; Pavlov, A.V., Laboratory Engineer

TITLE: A Two-Way Device for Short Lines (Dupleksnyy pribor dlya korotkikh liniy)

PERIODICAL: Vestnik svyazi, 1958, Nr 11, pp 12-13 (USSR)

ABSTRACT: The article contains a brief description of a two-way device which was developed by the laboratory of the Leningrad Central Telegraph Office. It is designed for establishing two-way communication on lines of not more than 300 km length in cases where telegraph traffic on this line exceeds the capacity of one telegraph apparatus. The device is assembled of standard parts and may be manufactured by the technical personnel of any oblast' telegraph office. There are 4 diagrams and 1 table.

ASSOCIATION: Leningradskiy tsentral'nyy telegraf (Leningrad Central Telegraph Office)

Card 1/1

PAVLOV, A.V.

Acclimatization of *Ctenopharyngodon idella*. *Priroda* 51 no.12:112
D '62. (MIRA 15:12)

1. Kaspiyskiy nauchno-issledovatel'skiy institut morskogo rybnogo
khoz'yaistva i okeanografii, Astrakhan'.
(Volga Delta—*Ctenopharyngodon*)

PAVLOV, A.V.

Materials on the migration and composition of the sturgeon stock
in the Volga River in 1958-1962. Trudy VNIRO no.54:137-159 '62.
(MIRA 18:2)

1. Kaspiyskiy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii.

ABDULADZE, Konstantin Ivanovich; SKRYABIN, K.I., akademik, red.;
PAVLOV, A.V., red.; LAGODOVSKAYA, Ye.A., red.

[Principles of cestodology] Osnovy tsestodologii. Mo-
skva, Nauka. Vol.4. 1964. 530 p. (MIRA 17:12)

PAVLOV, B.; ALEKSIN, N.; BOIADZHIEV, M.; POPOVA, Z.

Respiratory changes in collapse therapy in pulmonary tuberculosis.
Suvrem. med., Sofia 5 no.8:112-122 1954.

1. Iz Republikanskia nauchno-issledovatel'ski tuberkulozen institut,
direktor: dots. St.Todorov.

(COLLAPSE THERAPY,

eff. on resp.)

(RESPIRATION,

eff. of collapse ther.)

B. PAVLOV

"New Great Uplift of the Soviet Economy." p. 9 (Narodna Kooperatsiia. No. 1, Jan 1953 Sofiya.)

Vol. 2, no. 9

SO: Monthly List of East European Accessions./Library of Congress, Sept 1953, Uncl.

PAVLOV, B.

Kurs Organicheskoi Khimii (Organic Chemistry)

525 p. 2.00

SO: Four Continent Book List, April 1954

PAVLOV, B.

My flying model with control line. Kryl. rod. 8 no.2:22-23 P '57.
(Airplanes--Models) (MLBA 10:4)

BULGARIA / Farm Animals.

Q-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 45208

Author : Pavlov, Bedyalko; Gydev, Khristo

Inst : Not given

Title : The Epitheliocellular Structures in the Parenchyma of the Thyroid Gland in the Buffalo.

Orig Pub : Nauchn. tr. Vissh. veterinarnomed. in-t, 1956, 4, 323-335

Abstract : The thyroid gland of 45 buffaloes aged from 6 months to 17 years was studied. In 8% of the cases, among the follicles and intrafollicular islets of usual appearance, the presence of structures with laminated epithelium was detected. From this tissue the follicles or aggregations of cells in the interstitial tissue are formed. The laminated character of their structure is confirmed by microscopic section. They sharply differ from the tissue of the thyroid gland and from the remnants of the ultimobranchial bodies which are

Card 1/2

PAVLOV, B., kand.tekhn.nauk (Novosibirsk); GIBERT, A., inzh. (Novosibirsk)

In the laboratories and departments of our institutes. Tekh.
mol. 31 no.2:3 '63. (MIRA 16:6)
(Hydraulic machinery--Testing)

BOIADZHIEV, As.; PAVLOV, B.

Nephelometric method for the determination of CO₂ in exhaled air. Suvr. med. (Sofia) 16 no.1:33-34 '65.

1. Nauchno-izsledovatel'ski protivotuberkulozen institut (direktor: prof. St. Todorov).

FAVLOV, B.

Biological Chemistry - Societies

Some reports of the work of the Leningrad Sechenov Society of Physiologists, Biochemists, and Pharmacologists for 1951. Fiziol. zhur. 38 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May _____ 195⁶²₃, Uncl.

PAVLOV, B.

Pharmacology - Societies

Some reports of the work of the Leningrad Sechenov Society of Physiologists,
Biochemists and Pharmacologists for 1951., Fiziol zhur., 33, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953², Uncl.

PAVLOV, B.

Biological Chemistry - Societies

Some reports of the work of the Leningrad Sechenov Society of Physiologists, Biochemists, and Pharmacologists for 1951. Fiziol, zhur. 38 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1957² Uncl.

PAYLOV, B.

Brief results of five years' work of the I.M. Sechenov Leningrad
Society of Physiologists, Biochemists, and Pharmacologists;
1951-1955. Fisiol. sh. SSSR 42 no.1:131-132 Ja 56. (MIRA 9:5)

(PHYSIOLOGY--SOCINETIES)

AID P - 5521

Subject : USSR/Aeronautics - Model building
Card 1/1 Pub. 58 - 12/17
Author : Pavlov, B.
Title : My guided model of airplane built for competitions in
aerial acrobatics.
Periodical : Kryn. rod., 2, 22-23, F 1957
Abstract : A detailed description of the author's airplane model,
said to fit both the training purposes and the require-
ments of competitions in aerobatics. 10 drawings.
Institution : None
Submitted : No date

PAVLOV, B

Pharmacology - Societies

Some reports of the work of the Leningrad Sechenov Society of Physiologists,
Biochemists and Pharmacologists for 1951., Fiziol zhur., 38, no. 1, 1952.

9. Monthly List of Russian Accessions. Library of Congress, May 195~~8~~⁷, Uncl.

PAVLOV, B.

Physiology - Societies

Some reports of the work of the Leningrad Sechenov Society of the Physiologists,
Biochemists and Pharmacologists for 1951., Fiziol. Zhur., 38, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953² Uncl.

Pavlov, B.

Pavlov, B. Problems of the mountain afforestation have come to a head. Tr.
from the Russian. p. 170.

VOL. 12, no. 4, Apr. 1946
GORSKO STOFANSTVO
AGRICULTURE
Sofia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

PAVLOV, B., kand. tekhn. nauk

Introduce cybernetics to agriculture. N:o 5 no.11:6-9 N '63.
(MIRA 16:12)

1. Direktor Sibirskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo
instituta mekhanizatsii sel'skogo khozyaystva.

ALMAZOV, V.A.; PAVLOV, B.A.; RYABOV, S.I.

Leucocyte histochemistry in leukemia and agranulocytosis. Probl.
gemat. i perel. krovi 8 no.4:15-19 Ap'63 (MIRA 17:2)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof.
T.S. Istamova) I Leningradskogo meditsinskogo instituta imeni
akademika I.P.Pavlova.

PAVLOV, Boris Alekseyevich; TEREENT'YEV, Aleksandr Petrovich,
prof. Prinsipal uchastiye KORSUNSKIY, O.V.; RUKHADZE,
Ye.G.; ZITSEN, A.I., red.

[Course in organic chemistry] Kurs organicheskoi khimii.
Izd.5., perer. Moskva, Khimiia, 1965. 686 p.

(MIRA 18:5)

1. Chlen-korrespondent AN SSSR (for Terent'yev).

ALMAZOV, V.A., PAVLOV, B.A.

Histochemical study of blood cells in some diseases of the
blood system. Lab. delo 4 no.6:3-7 E-D '58 (MIRA 11:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. T.S. Istamanova)
Leningradskogo meditsinskogo instituta imeni I.P. Pavlova).
(BLOOD CELLS)

BARANOV, L.A.; PAVLOV, B.A., starshiy inzh.; PODLYASHUK, A. , inzh.,
red.

[Work safety for laying brick walls at the level of roofs made
of large slabs] Obozpechenie bezopasnosti truda pri kladke
kirpichnykh sten na urovne perekrytii iz krupnykh panelei.
Moskva, Gosstroizdat, 1960. 19 p. (MIRA 14:12)

1. Akademiya stroitel'stva i arkhitektury SSSR, Institut orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
Byuro tekhnicheskoy informatsii. 2. Glavnyy inzh. sektora
tekhniki bezopasnosti Nauchno-issledovatel'skogo instituta orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu
Akademii stroitel'stva i arkhitektury SSSR (for Baranov). 3. Sektor
tekhniki bezopasnosti Nauchno-issledovatel'skogo instituta orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu
Akademii stroitel'stva i arkhitektury SSSR (for Pavlov).
(Bricklaying--Safety measures)

PAVLOV, B.A.

Significance of the glycogen content of neutrophils. *Terap. arkh.*
32 no.9:44-48 '60. (MIRA 14:1)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. T.S. Istamanova)
I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.
(BLOOD SUGAR) (LEUKOCYTES)

RYABOV, S.I.; ALMAZOV, V.A.; PAVLOV, B.A.; DRUZHIN, I.M.

Effect of ACTH and cortisone on the functional activity of leukocytes.
Probl. gemat.i nerel. krovi 6 no.1:31-36 '61. (MIRA 14:2)
(ACTH) (CORTISONE) (LEUKOCYTES)

ALMAZOV, V.A.; PAVLOV, B.A.

Study of the motor activity of neutrophils. Lab.delo 7 no.7:23-26
Jl '61. (MIRA 14:6)

1. Kafedra fakul'tetskoy terapii (zav. - prof. T.S.Istamanova)
I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.
(LEUCOCYTES)

BOYKOVA, N. V.; PAVLOV, B. A. (Leningrad)

Primary sarcoma of the heart. Arkh. pat. no.6:69-72 '61.
(MIRA 14:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. M. A. Zakhar'yevskaya) i kafedry fakul'tetskoy terapii (zav. - prof. T. S. Istamanova) I Leningradskogo meditsinskogo instituta imeni akad. I. P. Pavlova.

(HEART--TUMORS)

PAVLOV, B.A., BARU, O.P., BOLOTINA, N.V., PRAZNIKOVA, N.V., CHEBYKIN, D.A.

"On the comparative physiology of the delayed and traced conditioned reflexes in some species of vertebrates."

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

PHASE I BOOK EXPLOITATION 919

Pavlov, Boris Alekseyevich and Terent'yev, Aleksandr Petrovich

Kurs organicheskoy khimii (Organic Chemistry Course) Moscow, Goskhmizdat, 1958. 592 p. 50,000 copies printed.

Ed.: Vasserberg, V. E.; Tech. Ed.: Lur'ye, M. S.

PURPOSE: This book is a textbook written especially for use in technological (not chemical) institutes and tekhnikums. It may also serve as a textbook for correspondence courses or as an aid in self-instruction.

COVERAGE: This is the second edition of the book by B. A. Pavlov, with additions by A. P. Terent'yev who also edited the book. A general survey is given of the origin, classification, preparation, utilization and nomenclature of organic compounds, including additional material on synthetic polymers, plastics, synthetic fibers, dyes, silicon, arsenic-, and phosphorus-organic compounds, etc. The theoretical sections are supplemented with current material on the structure of simple, multiple, and conjugate bonds, the structure of Benzene, the principle of orientation

Card 1/24

Organic Chemistry Course

919

7. Establishing the simplest formula [empirical formulas]	28
8. Determination of molecular weight	29
III. The Theory of Chemical Structure	29
9. The theory of radicals and the theory of types [of radicals]	29
10. A. M. Butlerov's theory of chemical structure	33
11. Classification of organic compounds	40

PART I. COMPOUNDS OF OPEN-CHAIN HYDROCARBONS

Ch. I. Hydrocarbons	43
Saturated hydrocarbons	43
12. A homologous series of saturated hydrocarbons	43
13. Hydrocarbon radicals (alkyls)	44
14. The structure of saturated hydrocarbons	45
15. The natural occurrence and the extraction of saturated hydrocarbons	48
16. Physical and chemical properties of saturated hydrocarbons	49

Card 3/24

Organic Chemistry Course

919

17. Methane	54
18. The general features of a substitution reaction	54
19. The Geneva nomenclature of organic compounds	55
20. Electron configuration schemes of organic compounds	57
21. Dipole moments	59
Bitumens	61
22. Composition of petroleum and its occurrence in nature	61
23. The origin of petroleum	62
24. By-products of petroleum refining and their application	63
25. Synthetic liquid fuel	65
26. Other bitumens	66
Unsaturated hydrocarbons	67
Hydrocarbons with one double bond (olefins)	67
27. The double bond	67
28. Nomenclature of olefins	70
29. Preparation and structure of olefins	71
30. Physical and chemical properties of olefins	72
31. Index of refraction. Molecular refraction	73
32. Ethylene	31
33. Isobutylene	33.

Card 4/24

Organic Chemistry Course

919

Hydrocarbons with triple bonds	83
34. The structure of acetylene hydrocarbons and their preparation	83
35. Properties of acetylene hydrocarbons	84
36. Acetylene	86
Hydrocarbons with two double bonds. Rubber	88
37. Structure and properties of hydrocarbons with two double bonds	88
38. Rubber and its properties	91
39. Structure and synthesis of rubber	92
Ch. II. Halogen Derivative Hydrocarbons	97
40. Halogen alkyls. Isomerism and methods of preparation	97
41. Properties of halogen alkyls	98
42. Dihalogen derivatives of saturated hydrocarbons	101
43. Polyhalogen derivatives of saturated hydrocarbons	103
44. Fluorine derivatives of saturated hydrocarbons	103
45. Halogen derivatives of unsaturated hydrocarbons	104
46. Plastics	105

Card 5/24

Organic Chemistry Course

919

Ch. III. Element-organic Compounds	110
47. Element-organic compounds and their value	110
48. Zinc-organic compounds	112
49. Magnesium-organic compounds	113
50. Silicon-organic and other element-organic compounds	113
Ch. IV. Alcohols and Their Derivatives	119
Monatomic saturated alcohols	119
51. The structure of alcohols	119
52. Homology and isomerism of alcohols	119
53. Methods of preparing monoatomic alcohols	122
54. Physical properties	124
55. Chemical properties	126
56. Principal kinds of alcohols. Methyl alcohol (methanol)	131
57. Ethyl alcohol (ethanol)	134
58. Propyl, butyl, and amyl alcohols	138
59. Optical activity of organic compounds	140
60. Stereochemical theory	144
61. Electron structure of single bonds (sigma-bonds)	144
Unsaturated alcohols	151

Card 6/24

Organic Chemistry Course

919

62. Allyl alcohol	151
63. Plastics from polymers of vinyl alcohol and its derivatives	152
Polyatomic alcohols	153
Diatomic alcohols or glycols	153
64. Structure, isomerism and nomenclature of glycols	153
65. Physical and chemical properties of glycols	154
Triatomic alcohols, or glycerins	156
66. Glycerin	156
67. Higher alcohols	157
Ethers	157
Complex ethers of inorganic acids	158
68. Preparation and properties of complex ethers of inorganic acids	158
69. Nitroglycerin	159
70. Ethers of orthosilicic acid	161
Simple ethers	161
71. Structure and preparation of simple ethers	161
72. Properties of simple ethers	163

Card 7/24

Organic Chemistry Course	919	
73. Ethyl ethers		164
Ch. V. Mercaptans, Sulfo-acids, and Thioethers		165
74. Mercaptans		165
75. Sulfo-acids		166
76. Thioethers		166
Ch. VI. Aldehydes and Ketones (Oxo compounds)		168
77. Structure, isomerism and nomenclature of oxo compounds		168
78. The preparation and several properties of aldehydes		170
79. The preparation and several properties of ketones		171
Reaction of aldehydes and ketones		172
80. Addition reactions		172
81. Substitution reactions		176
82. Oxidation of aldehydes and ketones		178
83. Reactions with an oxygen atom in the α -position of the carbonyl group		181
84. Comparison of the properties of aldehydes and ketones		183
Various examples of aldehydes and ketones		185
85. Formaldehyde		185
86. Acetaldehyde		187
87. Chloral		187
88. Acrolein		187
89. Citral		187

Card 8/24

Organic Chemistry Course

919

105. Theory of stress [bond]	217
106. Electron structure of double bonds (π -bonds)	217
107. Conjugation of multiple bonds (conjugates)	221
108. Oleic, linoleic, and linolenic acids	223
109. Plastics from polymers of the derivatives of acrylic and methacrylic acids	224
Complex esters of carboxylic acids	225
110. Structure and preparation of complex esters	225
110. Esterification	226
112. Properties of complex esters	227
113. Various types of complex esters of carboxylic acids	229
114. Waxes	230
115. Fats	230
116. Reduction of fats	231
117. Stearin production and soap manufacturing	232
119. Hydrogenation of fats	235
Acyl chlorides	236
120. Structure and preparation of acyl chlorides	236
121. Properties of acyl chlorides	237
Acid anhydrides	238

Card 10/24

Organic Chemistry Course

919

122. Structure and preparation of acid anhydrides	238
123. Properties of acid anhydrides	238
Acid amines	239
124. Structure and preparation of acid amines	239
125. Properties of acid amines	240
126. Derivatives of acids and the acid radical	240
Saturated dibasic acids	241
127. Structure of saturated dibasic acids	241
128. Physical and chemical properties of dibasic saturated acids	242
129. Oxalic acid	244
130. Malonic acid	244
131. Synthesis using malonic ester	246
132. Succinic acid	247
Unsaturated dibasic acids	248
133. Fumaric and maleic acids	248
Ch. VIII. Halogen-Substituted Acids	250
136. Structure and preparation methods of oxy-acids	252
137. Oxidation of multi-atomic alcohols	253
Card 11/24	

Organic Chemistry Course

919

138. Properties of oxy-acids	255
139. Lactic acid	256
140. Malic acid	259
141. Tartaric acid	260
142. Reduction of racemic substances to optical antipodes	264
143. Asymmetric synthesis	266
144. Stereoisomerism of substances with two or more asymmetric carbon atoms per molecule. Diastereoisomers.	267
145. Citric acid	270
146. Stereoisomerism of α -oxy acids	271
Ch. X. Aldehyde Acids and Ketonic Acids	273
147. Structure and various types of aldehyde-and ketonic acids	273
148. Acetoacetic ester	274
149. Tautomerism	277
150. Synthesis using acetoacetic ester	278
Ch. XI. Carbohydrates	281
151. Classification of carbohydrates	281
Monosaccharides	281
152. Structure of monosaccharides	281

Card 12/24

Organic Chemistry Course

919

153. Study of the stereoisomerism of hexose (aldohexose)	286
154. The natural occurrence and preparation of monosaccharides	289
155. Properties of monosaccharides	292
156. Trioses	295
157. Pentoses	296
158. Hexoses	298
159. Glucosides	301
160. Mechanism of alcoholic fermentation	302
Sugar-like polysaccharides	304
161. Properties and structure of disaccharides	304
162. Saccharose [sucrose]	307
163. Maltose. Milk sugar (lactose). Cellose	309
Non-sugar-like polysaccharides	309
164. Starch	309
165. Dextrin	310
166. Glycogen. Inulin	311
167. Cellulose	311
168. Complex and simple cellulose esters	314

Card 13/24

Organic Chemistry Course	919
169. Artificial silk	316
170. Hemicelluloses (hexosans) and pectins	313
Ch. XII. Nitrocompounds	320
171. Structure and preparation methods of nitrocompounds	320
172. Properties of nitrocompounds	322
Ch. XIII. Amines	324
173. Structure of amines	324
174. Properties of amines	324
175. Structure of ammonium salts	327
176. Preparation of amines	328
177. Different kinds of amines	330
Ch. XIV. Amino Alcohols and Amino Acids	352
178. Amino alcohols	332
179. Structure and preparation methods of amino acids	334
180. Properties of amino acids	336
181. Different kinds of amino acids	338
Ch. XV. Proteins	346
Card 14/24	

Organic Chemistry Course

919

182. Proteins in nature	346
183. Properties of Proteins	346
184. Natural Proteins	348
185. Conjugated proteins	350
186. Study of the chemical structure of proteins	352
187. On the synthesis of proteins	355
188. Synthetic fiber	355
189. Working with substances containing tagged atoms	356
Ch. XVI. Cyanogen Compounds	359
190. Cyano compounds and sources for obtaining them	359
191. Nitriles. Preparation and properties	360
192. Isonitriles	361
193. Hydrocyanic (prussic) acid	362
194. Cyanogen	363
195. Cyanamide	364
196. Cyanic acid	364
197. Thiocyanic, or sulfocyanic, acid	365
Ch. XVII. Derivatives of Carbonic Acid	367
Card 15/24	

Organic Chemistry Course

919

198. Acid chlorides of carbonic acid	367
199. Complex esters of carbonic acid	368
200. Derivatives of carbonic acids containing nitrogen	369
201. Sulfur analogues of carbonic acid derivatives	373
202. Plastics from urea-formaldehyde resins (carbamide resins)	375

PART II. CARBOCYCLIC COMPOUNDS. COMPOUNDS OF THE AROMATIC SERIES

Ch. XVIII. Mono-nuclear [Monocyclic] Aromatic Compounds	377
Benzene and Its Homologs	377
203. Derivatives of benzene	380
204. Structure of benzene	380
205. Di-substituted and tri-substituted benzene derivatives. Isomerism	383
206. Structure and properties of benzene homologs	385
207. Methods of preparing benzene homologs	386
208. Industrial preparation of aromatic compounds	388
209. Halogen derivatives of aromatic hydrocarbons	391
210. Properties of halogen-derivative aromatic hydrocarbons	393
211. Several examples of halogen-derivative aromatic hydrocarbons	394

Card 16/24

Organic Chemistry Course

919

Halogen derivatives of benzene and their homologs	391
212. Nitration	394
213. Control reaction of substitutes	395
214. Properties of nitrocompounds	399
215. Different kinds of nitrocompounds	401
216. Sulfonation, sulfonic acids	402
Phenols and Aromatic Alcohols. Quinones	404
217. Structure, preparation methods and properties of phenols	404
218. Phenol. Cresol	406
219. Stimulants for plant-growth and herbicides	407
220. Synthetic phenol-formaldehyde resins	408
221. Picric acid	411
222. phenols	411
223. Quinones	412
224. Bivalent phenols	414
225. Aromatic ethers	416
226. Aromatic alcohols	416
Aromatic aldehydes and ketones	417
227. Aldehydes	417
228. Ketones	421
Card 17/24	

Organic Chemistry Course

919

Carboxylic Acids	421
229. Benzoic acid	421
230. Saccharin	423
231. Phthalic acid	424
232. Polyester resins. Phthalic resins	425
233. Phthaleins	427
Oxy acids	428
234. Salicylic acid	428
235. Gallic acid	431
236. Tannic acid	432
Acids with carboxyl on the lateral chain [with a carboxyl group in a side-chain position]	433
237. Phenylacetic acid	433
238. Mandelic acid	433
239. β -phenylpropionic acid	433
240. Cinnamic acid	433
Aromatic amines	435
241. Preparation methods and properties of primary aromatic amines	435
242. Aniline and its derivatives	438
243. Plastics from aniline-formaldehyde resins (anilino plastics)	441

Card 18/24

Organic Chemistry Course

919

244. Secondary and ternary amines	442
245. Diamines	444
Amino phenols and amino benzoic acids	446
246. Amino phenols	446
247. Amino benzoic acid	447
248. Phenyl alanin	449
Diazo compounds	449
249. Preparation and structure of diazo compounds	449
250. Reactions of diazo compounds taking place with the separation of nitrogen	451
251. Synthesis using diazo compounds	451
252. Reduction of diazo compounds. Hydrazines	452
Azo compounds. Azo dyes	453
253. Azo compounds	453
254. Aminoazo compounds, azoxy compounds	454
255. Preparation of azo dyes	455
256. Dyes and dyeing	458
257. Natural and synthetic dyes	460
Ch. XIX. Polycyclic (Polynuclear) Aromatic Compounds	462
Card 19/24	

Organic Chemistry Course

919

Compounds Containing Benzene Rings Joined Directly or Through
Carbon

258. Diphenyl. Benzidine	462
259. Triphenyl methane and its derivatives	464
260. Dyes of triphenyl methane. Structure and properties	465
261. Preparation of dyes from triphenyl methane	468
262. Free radicals	470
Condensed nuclear compounds	472
263. Naphthalene	472
264. Derivatives of naphthalene	474
265. Proof of naphthalene formation	477
266. Naphthalene dyes	478
267. Tetralin. Decalin	479
268. Anthracene	480
269. Anthraquinone	481
270. Alizarin	483
271. Indanthrene	485
272. Phenanthrene	486
273. Condensed polynuclear compounds	486

Card 20/24

Organic Chemistry Course

919

ALICYCLIC COMPOUNDS

Ch. XX. Cycloparaffins	488
274. Structure and preparation methods of cycloparaffins	488
275. Properties of cycloparaffins	492
276. Various examples of cycloparaffins	493
277. Stress in alicyclic compounds	495
278. Stereoisomerism of alicyclic compounds	497
Ch. XXI. Terpenes	500
279. Terpenes in nature	500
280. Classification of terpenes	501
281. Monocyclic terpenes	501
282. Bicyclic terpenes	504
283. Camphor	506
Ch. XXII. Carotenoids	508
284. Lycopene	208
285. Carotene	508
286. Vitamin A	510
Card 21/24	